

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/001151

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H04L 12/18, 29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC, PAJ, Elsevier, IEE, I3E, IEEEExplore

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5835723 A (ANDREWS et al.) 10 November 1998 (10.11.1998) <i>figures 1, 5, 6, 10-13, column 2, line 30 - column 3, line 19, claims 1-5.</i>	1-46

A	EP 1202493 A2 (HEWLETT PACKARD COMPANY) 2 May 2002 (02.05.2002) <i>figure 2B, paragraph 10-11.</i>	1

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
31 March 2005 (31.03.2005)Date of mailing of the international search report
13 April 2005 (13.04.2005)Name and mailing address of the ISA/ AT
Austrian Patent Office
Dresdner Straße 87, A-1200 Vienna

Facsimile No. +43 / 1 / 534 24 / 535

Authorized officer

ENGLISCH M.

Telephone No. +43 / 1 / 534 24 / 565

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 2004/001151

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
EP	A2	1202493	2002-05-02	none	
US	A	5835723	1998-11-10	none	

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/107092 A3

(51) International Patent Classification⁷: **H04L 12/18**,
29/06

(21) International Application Number:
PCT/KR2004/001151

(22) International Filing Date: 14 May 2004 (14.05.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0034962 30 May 2003 (30.05.2003) KR
10-2004-0022191 31 March 2004 (31.03.2004) KR

(71) Applicant (for all designated States except US): **LG ELECTRONICS, INC.** [KR/KR]; 20, Yoido-Dong, Yongdungpo-Ku, Seoul 150-010 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HA, Sam-Chul** [KR/KR]; Sapa-Dongsung Apt. 102-1201, Sapa-Dong, Changwon-Shi, Kyungsangnam-Do 641-550 (KR).
BAEK, Seung-Myun [KR/KR]; Lucky Apt. 12-403,

Banlim-Dong, Changwon-Shi, Kyungsangnam-Do 641-764 (KR). **LEE, Koon-Seok** [KR/KR]; Sungwon Apt. 102-1406, 45-1 Sangnam-Dong, Changwon-Shi, Kyungsangnam-Do 641-778 (KR). **KIM, Yong-Tae** [KR/KR]; Daedong Apt. 1006-1504, Mukeya-Ri, Jangyou-Myun, Gimhae-Shi, Kyungsangnam-Do 621-833 (KR).

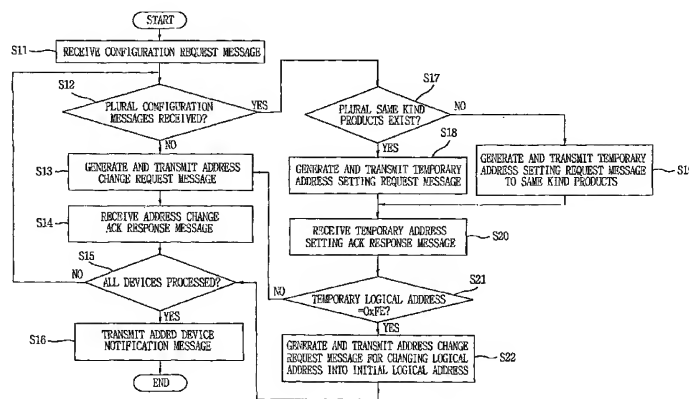
(74) Agent: **LEE, Kwang-Yeon**; LEE & KIM, 5th Floor, New-Seoul Bldg., 828-8, Yoksam 1-Dong, Kangnam-Ku, Seoul 135-935 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: HOME NETWORK SYSTEM



(57) Abstract: The present invention discloses a home network system using a living network control protocol. The home network system includes: at least one new device including a node address having an initial logical address through a network based on a predetermined protocol, transmitting a configuration request message having the node address to a master device, receiving a temporary address setting request message, changing the initial logical address by selecting one temporary logical address, generating a temporary address setting response message, transmitting the temporary address setting response message to the master device, receiving an address change request message having a predetermined logical address from the master device, changing the temporary logical address into the received logical address, and having a unique node address; and at least one master device for receiving the plurality of configuration request messages (S11) from the new device, setting the temporary logical address range for the new device, transmitting the temporary address setting request message (S18) having the set temporary logical address range to the new device, receiving the temporary address setting response message (S20) from the new device, setting the predetermined logical address of the new device, and transmitting the address change request message (S22) having the set logical address to the new device of the selected temporary address.



A3

WO 2004/107092



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
16 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.